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NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY **EXAMINATION REPORT** 

(PCT Rule 72.2)

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**IMPORTANT NOTIFICATION** 

MIYOSHI PATENT

Date of mailing (day/month/year) 21 April 2005 (21.04.2005)

Applicant's or agent's file reference

PCT/JP2003/006860

JHTK-51-PCT International application No.

International filing date (day/month/year)

30 May 2003 (30.05.2003)

Applicant

HITACHI CHEMICAL CO., LTD. et al

1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

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3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

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# Translation





# **PCT**

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

	(PCT Article 30 at			
Applicant's or agent's file reference  JHTK-51-PCT	FOR FURTHER ACTION	Preliminary I	Examination Report (Form PCT/IPEA/416)	
international application No.	International filing date (day 30 May 2003 (30.6	y/month/year) )5.2003)	Priority date (day/month/year) 18 July 2002 (18.07.2002)	
PCT/JP2003/006860 International Patent Classification (IPC) or r H05K 1/16, 3/46, H01F 17/00, I	national classification and IPC			
Applicant	НІТАСНІ СНЕМІСА	L CO., LTD.		
2. This REPORT consists of a total of the approach.  This report is also accompanded and are the basis 70.16 and Section 607 of the approach.	of5 sheets, inc	luding this cover ets of the descrip ontaining rectifi s under the PCT)	cations made before this Authority (see Rule	
3. This report contains indications relating to the following items:  I Basis of the report  II Priority  III Non-establishment of opinion with regard to novelty, inventive step and industrial applical  IV Lack of unity of invention  V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial citations and explanations supporting such statement  VI Certain documents cited  VII Certain defects in the international application  VIII Certain observations on the international application				
Date of submission of the demand  11 December 2003	(11.12.2003)	Date of comple	tion of this report 19 May 2004 (19.05.2004)	
Name and mailing address of the IPE	А/ЈР	Authorized off	icer	
Facsimile No.		Telephone No		



Internation plication No.

## PCT/JP2003/006860 INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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3. With prel	the lange or 55.3).  th regard timinary ex contained filed to furnish The st internal	were available or furnished to this Authority in the value of a translation furnished for the purposes of international search (under Rule 23 tage of publication of the international application (under Rule 48.3(b)).  The purpose of the translation furnished for the purposes of international preliminary examinated and an armination was carried out on the basis of the sequence disclosed in the international armination was carried out on the basis of the sequence listing:  The purpose of international application in written form.  The pether with the international application in computer readable form.  The subsequently to this Authority in written form.  The subsequently to this Authority in computer readable form.  The subsequently to this Authority in computer readable form.  The subsequently to this Authority in computer readable form.  The subsequently furnished written sequence listing does not go the subsequently furnished.  The subsequently is identical to the subsequently furnished.	mination (under Rule 55.2 and/ l application, the international b beyond the disclosure in the
	This r	the description, pages the claims, Nos2_7 the drawings, sheets/fig eport has been established as if (some of) the amendments had not been made, since d the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**  t sheets which have been furnished to the receiving Office in response to an invitation of as "originally filed" and are not annexed to this report since they do not sment sheet containing such amendments must be referred to under item 1 and annexament sheet containing such amendments must be referred to under item 1 and annexament.	on under Article 14 are referred contain amendments (Rule 70

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_		tion of an or industrial applicability;
١	Becaused statement under Article 35(2) with re-	gard to novelty, inventive step or industrial applicability; ment
l	V. Reasoned statement under vicinity such state citations and explanations supporting such state	ment
Ł	Citations	

1.	Statement		1, 3, 5, 6, 8-23, 26-32	YES
	Novelty (N)	Claims Claims	4, 24-25	NO
			1, 3	YES
	Inventive step (IS)	Claims Claims	4-6, 8-32	NO -
	Industrial applicability (IA)		1, 3-6, 8-32	YES
		Claims		NO
		Claims		

### Citations and explanations

- Document 1: JP 9-148746 A (Kyocera Corporation), 6 June 1997
- Document 2: JP 10-013036 A (Kyocera Corporation), 16
  January 1998
- Document 3: JP 2001-68858 A (Shinko Electric Industries, Co., Ltd.), 16 March 2001
- Document 4: JP 1-189999 A (Matsushita Electric Works, Ltd.), 31 July 1989
- Document 5: JP 7-183665 A (Murata Manufacturing Company, Ltd.), 21 July 1995
- Document 6: JP 6-085462 A (Nihon Cement Co., Ltd.), 25

  March 1994

The invention set forth in claims 1 and 3 involves an inventive step in relation to documents 1 to 6 cited in the international search report. Documents 1 to 6 do not disclose a multilayer wiring board, having an assymetrical layer structure with a capacitor in an arbitrarily defined core layer, the warpage of which is described by a curvature of  $4.0 \times 10^{-4} \mathrm{mm}$  or less at room temperature, and said feature would not be obvious to a person skilled in the art.

The inventions set forth in claim 4, 24 and 25 lack novelty in the light of document 3 cited in the international search report.

The invention set forth in claim 5 does not involve an inventive step in the light of document 3 cited in the international search report. It would be easy for a person skilled in the art to constitute an invention in such a manner that a conductor pattern comes into contact with three different types of insulating materials, in the light of document 3.

The invention set forth in claims 6, 8 and 9 does not involve an inventive step in the light of documents 1, 2 and 5 cited in the international search report. It would be easy for a person skilled in the art to apply the means of disposing one electrode further inside than an opposing electrode, as described in document 5, to the invention set forth in document 1 or 2.

The invention set forth in claims 10 and 11 does not involve an inventive step in the light of documents 1, 2 and 5 cited in the international search report. Document 2 indicates that the part of the conductor layer which is not required is subjected to etching.

The invention set forth in claims 12 to 14 does not involve an inventive step in the light of documents 3 and 4 cited in the international search report. It would be easy for a person skilled in the art to apply the means of forming an inductor on a multilayer wiring board set forth in document 4, to the invention set forth in document 3.

The invention set forth in claims 15 to 23 does not involve an inventive step in the light of documents 1, 2,

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3, 4 and 5 cited in the international search report.

The invention set forth in claims 26 to 29 does not involve an inventive step in the light of documents 1, 2, 3 and 6 cited in the international search report. It would be easy for a person skilled in the art to apply the means of carrying out exposure a plurality of times described in document 6 to the invention set forth in document 1, 2 or 3.

The invention set forth in claim 30 does not involve an inventive step in the light of documents 1 to 3, 4 and 6 cited in the international search report.

The invention set forth in claims 31 to 32 does not involve an inventive step in the light of documents 1 to 6 cited in the international search report.